

### NIST and the HAVA: Continued VVSG Development

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## Today's Talk

- Background
- Current EAC VVSG
- New VVSG Work
- Contact Info



### NIST "Help America Vote Act" Responsibilities

- Chair Technical Guidelines Development Committee (TGDC)
- Provide technical support to TGDC in the development of voluntary voting system guidelines including:
  - Human factors
  - Security
  - Methods to detect and prevent fraud
- Accredit testing labs

### NIST/TGDC Committee Structure & Coordination

- TGDC resolution (July '04) established 3 subcommittees to gather and analyze information:
  - Human Factors and Privacy (HFP)
  - Security and Transparency (STS)
  - Core Requirements and Testing (CRT)
- Each Subcommittees has NIST staff assigned to it.

#### **NIST/TGDC** Activities

- July 2004: 1st plenary session of TGDC
- May 2005: Provided initial recommendations for voting system guidelines (VVSG)
- December 2005: Final VVSG announced by the EAC
  - EAC initiated public comment period ending September 30
  - EAC requested NIST help to identify policy decisions and changes as a result of public comments
  - EAC announced official VVSG on 13 December 2005
- September 2005: Kicked off next round of technical guidance (VVSG 2007)
- July 2007: Estimated completion for TGDC's work on next VVSG version



# 2005 Voluntary Voting System Guidelines

- Improves the 2002 VSS by addressing:
  - Human Factors
  - VVPAT (Voter Verifiable Paper Audit Trail)
  - Wireless
  - Software Distribution and Setup Validation
  - Conformance, Glossary, Error Rates
- Sets stage for Redesigned Version
  - Human Factors
  - Independent Dual Verification



#### What's Next?

- NIST conducting research in usability, security, core requirements
- Working actively with TGDC on new requirements and issues
- NIST/EAC have agreed on timeline of new modules VVPAT, Usability, IDV
- NIST NVLAP program working to accredit potential voting system testing labs
- Next TGDC meeting on March 29, 2006, at NIST open to public



### Major Goals for VVSG 2007

- A comprehensive standards guideline, a complete rewrite of 2002 VSS with updated and expanded material, to:
  - Provide complete and comprehensive guideline for vendors and test labs
  - Provide clear, usable requirements discussion with associated test methods
  - Address security and human factors developments since 2002 VSS
  - Respond to all TGDC Jan'05 resolutions



#### VVSG 2007 Overview

- 4 major sections:
  - A product standard, containing general and votingactivity related requirements (e.g., setup, cast, count, ...)
  - A terminology standard (NIST glossary)
  - A standard on data to be provided by testing authorities or the vendor
  - A testing standard including all test methods, testing requirements, evaluation guidelines, test cases, etc.



#### **Current Status**

- NIST basing its work on solid research and consultancy with election community
- Research underway:
  - Meetings with vendors
  - Working with usability and accessibility experts
  - Threat analysis work
  - Preliminary requirements development

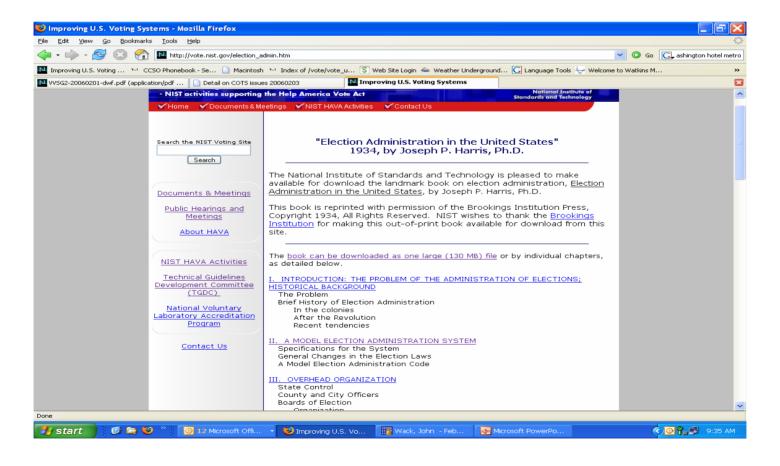


### http://vote.nist.gov





#### Election Administration in the US



### Questions?

- Next TGDC meeting on March 29, 2006
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